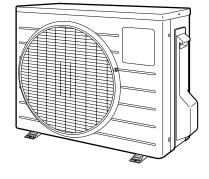


INSTALLATION MANUAL

R410A Split Series





Models RX20GV1B RX25GV1B RX35GV1B RX20JV1B RX25JV1B RX35JV1B

RK20GV1B RK25GV1B RK35GV1B

Installation manual R410A Split series	English
Installationsanleitung Split-Baureihe R410A	Deutsch
Manuel d'installation Série split R410A	Français
Montagehandleiding R410A Split-systeem	Nederlands
Manual de instalación Serie Split R410A	Español
Manuale d'installazione Serie Multiambienti R410A	Italiano
Εγχειρίδιο εγκατάστασης διαιρούμενης σειράς R410A	Ελληνικά
Manual de Instalação Série split R410A	Portugues
Руководство по монтажу Серия R410A с раздельной установкой	Русский
Montaj kılavuzları R410A Split serisi	Türkçe

ACION-DE-CONFORMIDAD AZIONE-DI-CONFORMITA ΣΥΜΜΟΡΦΩΣΗΣ

CE - DECLARAÇÃO-DE-CONFORMIDADE CE - 3ARBJIEHNE-O-COOTBETCTBIN CE - OPFYLDELSESERKLÆRING CE - FÖRSÄKRAN-OM-ÖVERENSTÄMMELSE

CE - ERKLÆRING OM-SAMSVAR CE - ILMOITUS-YHDENMUKAISUUDESTA CE - PROHLÁŠENÍ-O-SHODĚ

CE - IZJAVA-O-USKLAĐENOSTI CE - MEGFELELŐSÉGI-NYILATKOZAT CE - DEKLARACJA-ZGODNOŚCI CE - DECLARAŢIE-DE-CONFORMITATE

CE - IZJAVA O SKLADNOSTI CE - VASTAVUSDEKLARATSIOON CE - QEKJAPALIVR-3A-CbOTBETCTBNE

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DAIKIN INDUSTRIES, LTD

 We werklaard resolvener versionserver version of the annual of the providential of the second extiărt auf seine alleinige Verantwortung daß die Modelle der Klimageräte für die diese Erklärung bestimmt ist.
 externation externation externation en des appareits d'air conditionne visés par la présente déclar ation: 01 (a) declares under its sole responsibility that the air conditioning models to which this declar ation relates:

09 🚥 заявляет, исключительно под свою ответственность, что модели кондиционеров воздуха, к которым относится настоящее заявление:

 See enkærer under eneansrar, at klimaanlægmodellerne, som denne deklaration vedrører:
 Se deklarerar i egenskap av huvudansvarig, att luftkondritoneringsmodellerna som berörs av denna deklaration innebär att:
 Rev enklærer et fullstendig ansvar for at de luftkondisjoneringsmodeller som berørse av denne deklaration innebär att:
 Se innoittaa yksinomaan omalla vastuulaan, että tämän linnoituksen tarkoittamat linnastointlaitteiden mallit: 17 🖭 deklaruje na własną i wyłączną odpowiedzialność, że modele klimatyzatorów, których dotyczy niniejsza deklaracja: 16
 teljes felelőssége tudatában kijelenti, hogy a klímaberendezés modellek, melyekre e nyilatkozat vonatkozik: 15 (m) izjavljuje pod isključivo vlastitom odgovornošću da su modeli klima uređaja na koje se ova izjava odnosi: 14 🐵 prohlašuje ve své plné odpovědnosti, že modely klimatizace, k nimž se toto prohlášení vztahuje:

19 🐵 z vso odgovornostjo izjavlja, da so modeli klimatskih naprav, na katere se izjava nanaša:

Mimilab oma täjelikul vasutuusei, et käesoleva dektaratsiooni alla kuuluvad kliimaseadmete mudelid:
 Bio gio pakrappiga на своя оптоворност, че моделите климатична инсталация, за които се отнася тази декларация.

22 II) visiška savo atsakomybe skelbia, kad oro kondicionavimo prietaisų modellai, kuriems yra taikoma ši deklaracija:

23 (W) ar plinu atbildfbu apliečina, ka talāk uzskaitīto modelu gaisa kondicionētāji, uz kuriem attiecas šī deklarācija. 24 (SS) vyhlasuje na vlastnú zodpovednost, že tieto klimatizačné modely, na ktoré sa vzťahuje toto vyhlásenie.

25 🖽 tamamen kendi sorumluluğunda olmak üzere bu bildirinin ilgili olduğu klima modellerinin aşağıdaki gibi olduğunu beyan eder:

18 (n) declară pe proprie răspundere că aparatele de aer condiționat la care se referă această declarație:

RX20GV1B, RX25GV1B, RX35GV1B, RK20GV1B, RK25GV1B, RK35GV1B, RX20JV1B, RX25JV1B, RX35JV1B

08 estão em conformidade com a(s) seguinte(s) norma(s) ou outro(s) documento(s) normativo(s), desde que estes sejam utilizados de acordo com as nossas instruções:

09 соответствуют следующим стандартам или другим нормативным документам, при условии их использования согласно нашим инструкциям

01 are in conformity with the following standard(s) or other normative document(s), provided that these are used in accordance with our

daß sie gemäß unseren Anweisungen eingesetzt werden: 03 sont conformes à la aux normels) ou autre(s) document(s) normatif(s), pour autant qu'ils solent utilisés conformément à nos instructions:

04 conform de volgende norm(en) of één of meer andere bindende documenten zijn, op voorwaarde dat ze worden gebruikt overeenkomstig 05 están en conformidad con la(s) siguiente(s) norma(s) u otro(s) documento(s) normativo(s), siempre que sean utilizados de acuerdo con

02 deriden folgenden Norm(en) oder einem anderen Normdokument oder -dokumenten entspricht/entsprechen, unter der Voraussetzung,

nstructions

06 sono conformi al(i) seguente(i) standard(s) o altro(i) documento(i) a carattere normativo, a patto che vengano usati in conformità alle Οτ είναι σύμφωνα με τοίςι) ακόλουθοίςι) πρότυποίοι) ή άλλο έγγραφοίο) κανονισμών, υπό την προϋπόθεση ότι χρησμοποιούνται σύμφωνα με τις οδηγίες μας:

nuestras instrucciones: onze instructies:

nostre istruzioni:

EN60335-2-40

10 overholder følgende standard(er) eller andet/andre retningsgivende dokument(er), forudsat at disse anvendes i henhold til vore instrukser:

11 respektive utrustning är utförd i överensstämmelse med och följer följande standard(er) eller andra normgivande dokument, under

12 respektive utstyr er i overensstemmelse med følgende standard(er) eller andre normgivende dokument(er), under forutssetning av at förutsättning att användning sker i överensstämmelse med våra instruktioner:

13 vastaavat seuraavien standardien ja muiden ohjeellisten dokumenttien vaatimuksia edellyttäen, että niitä käytetään ohjeidemme disse brukes i henhold til våre instrukser:

14 za předokladu, že jsou využivány v souladu s našími pokymy, odpovídají následujícím normám nebo normativním dokumentům: 15 u skladu sa slijedečím standardom(ima) ili drugím normativním dokumentom(ima), uz vvjet da se oni koriste u skladu s naším uputama: mukaisesti:

17 spełniają wymogi następujących norm i innych dokumentów normalizacyjnych, pod warunkiem że używane są zgodnie z naszymi 16 megfelelnek az alábbi szabvány(ok)nak vagy egyéb irányadó dokumentum(ok)nak, ha azokat előírás szerint használják: instrukojami

18 sunt în conformitate cu următorul (următoarele) standard(e) sau alt(e) document(e) normativ(e), cu condiția ca acestea să fie utilizate în conformitate cu instrucțiunile noastre

19 skladni z naslednjimi standardi in drugimi normativi, pod pogojem, da se uporabljajo v skladu z našimi navodili:

21 съответстват на следните стандарти или други нормативни документи, при условие, че се използват съгласно нашите 20 on vastavuses järgmis(t)e standardi(te)ga või teiste normatiivsete dokumentidega, kui neid kasutatakse vastavalt meie juhenditele:

22 atitinka žemiau nurodytus standartus ir (arba) kitus norminius dokumentus su sąlyga, kad yra naudojami pagal mūsų nurodymus: инструкции:

24 sú v zhode s nasledovnou(ými) normou(ami) alebo iným(i) normatívnym(i) dokumentom(ami), za predpokladu, že sa používajú v súlade 23 tad, ja lietoti atbilstoši ražotāja norādījumiem, atbilst sekojošiem standartiem un citiem normatīviem dokumentiem: s našim návodom:

25 ürünün, talimatlarımıza göre kullanılması koşuluyla aşağıdaki standartlar ve norm belirten belgelerle uyumludur:

25 Değiştirilmiş halleriyle Yönetmelikler.

16 irányelv(ek) és módosításaik rendelkezéseit.

15 Smjernice, kako je izmijenjeno.

14 v platném znění.

18 Directivelor, cu amendamentele respective

както е изложено в <A> и оценено

положително от съгласно

Сертификата <C>

17 z późniejszymi poprawkami.

13 Direktiivejä, sellaisina kuin ne ovat muutettuina.

23 Direktīvās un to papildinājumos.

24 Smernice, v platnom znení.

<A> DAIKIN.TCF.015 M12/09-2009

<C> 74736-KRQ/EMC97-4957

 KEMA Quality B.V.

ako bolo uvedené v <A> a pozitívne zistené v súlade s osvedčením <C>.

<A>'da belirtildiği gibi ve <C> Sertifikasına

göre tarafından olumlu olarak

değerlendirildiği gibi.

kaip nustatyta <A> ir kaip teigiamai nuspręsta

pagal Sertifikata <C>.

kā norādīts <A> un atbilstoši pozitīvajam

vērtējumam saskanā ar sertifikātu <C>.

21 Директиви, с техните изменения.

19 Direktive z vsemi spremembami.

10 Direktiver, med senere ændringer. 11 Direktiv, med företagna ändringar. 12 Direktiver, med foretatte endringer

20 Direktiivid koos muudatustega. 22 Direktyvose su papildymais.

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Low Voltage 2006/95/EC ompatibility 2004/108/EC	16 Megjegyzés ⁴	17 Uwaga*	18 Notă*	19 Opomba *	20 Märkus *
Low Voltage 2006/95/EC Electromagnetic Compatibility 2004/108/EC	11 Information * enligt <a> och godkäntsav enligt Certifikatet <c>.</c>	som det fremkommer i <a> og gjennom positiv bedømmelse av itølge Sertifikat <c> .</c>	jotka on esitetty asiakirjassa <a> ja jotka on hyväksynyt Sertifikaatin <c> mukaisesti.</c>	jak bylo uvedeno v <a> a pozitivně zjištěno v souladu s osvědčením <c> .</c>	15 Napomena kako je izloženo u <a> i pozitivno odjenjeno od strane prema Certifikatu <c>.</c>
	11 Information *	12 Merk *	13 Huom *	14 Poznámka *	15 Napomena*
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10 under lagttagelse af bestemmelserne 11 enligt vilkoren i: 12 dit henhold til bestemmelsene i: 13 roudattaen määräyksiä: 14 za dobžeh ustanoveni předpisu: 15 prema odredbama: 16 követi at(2): 17 zgodnie z postanoveniami Dyrektyw. 18 hruma rewedehior:	as set out in <a> and judged positively by according to the Certificate <c>.</c>	wie in der <a> aufgeführt und von positiv beurteilt gemäß Zertifikat <c>.</c>	tel que défini dans <a> et évalué positivement par conformément au Certificat <c>.</c>	zoals vermeld in <a> en positief beoordeeld door overeenkomstig Certificaat <c> .</c>	<a> y es valorado de acuerdo con el
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DAIKIN INDUSTRIES. LTD. Umeda Center Bldg., 2-4-12, Nakazaki-Nishi. Kita-ku, Osaka, 530-8323 Japan

Manager Quality Control Department

Shinri Sada

11th. of Sep. 2009

7 Linki Sada

DAIKIN

3SB64526-8D

Safety Precautions

- Read these Safety Precautions carefully to ensure correct installation.
- This manual classifies the precautions into WARNING and CAUTION.
- Be sure to follow all the precautions below: they are all important for ensuring safety.

The following safety symbols are used throughout this manual:

Be sure to observe this instruction.

Be sure to establish an earth connection.

Never attempt.

• After completing installation, test the unit to check for installation errors. Give the user adequate instructions concerning the use and cleaning of the unit according to the Operation Manual.

	<u> MARNING</u>
•	Installation should be left to the dealer or another professional. Improper installation may cause water leakage, electrical shock, or fire.
	 Install the air conditioner according to the instructions given in this manual. Incomplete installation may cause water leakage, electrical shock, or fire.
	 Be sure to use the supplied or specified installation parts. Use of other parts may cause the unit to come to lose, water leakage, electrical shock, or fire.
	 Install the air conditioner on a solid base that can support the weight of the unit. An inadequate base or incomplete installation may cause injury in the event the unit falls off the base.
	• Electrical work should be carried out in accordance with the installation manual and the national electrical wiring rules or code of practice. Insufficient capacity or incomplete electrical work may cause electrical shock or fire.
•	 Be sure to use a dedicated power circuit. Never use a power supply shared by another appliance.
•	 For wiring, use a cable length enough to cover the entire distance with no connection. Do not use an extension cord. Do not put other loads on the power supply, use a dedicated power circuit. (Failure to do so may cause abnormal heat, electric shock or fire.)
	• Use the specified types of wires for electrical connections between the indoor and outdoor units. Firmly clamp the interconnecting wires so their terminals receive no external stresses. Incomplete connections or clamping may cause terminal overheating or fire.
	 After connecting interconnecting and supply wiring be sure to shape the cables so that they do not put undue force on the electrical covers or panels.
	Install covers over the wires. Incomplete cover installation may cause terminal overheating, electrical shock, or fire.
	If any refrigerant has leaked out during the installation work, ventilate the room. (The refrigerant produces a toxic gas if exposed to flames.)
	After all installation is complete, check to make sure that no refrigerant is leaking out. (The refrigerant produces a toxic gas if exposed to flames.)
•	• When installing or relocating the system, be sure to keep the refrigerant circuit free from substances other than the specified refrigerant (R410A), such as air.
_	(Any presence of air or other foreign substance in the refrigerant circuit causes an abnormal pressure rise or rupture, resulting in injury.)
	• During pump-down, stop the compressor before removing the refrigerant piping. If the compressor is still running and the stop valve is open during pump-down, air will be sucked in when the refrigerant piping is removed, causing abnormal pressure in the freezer cycle which will lead to breakage and even injury.
•	• During installation, attach the refrigerant piping securely before running the compressor.
-	If the compressor is not attached and the stop valve is open during pump-down, air will be sucked in when the compressor is run, causing abnormal pressure in the freezer cycle which will lead to breakage and even injury.
	• Be sure to establish an earth. Do not earth the unit to a utility pipe, arrester, or telephone earth. Incomplete earth may cause electrical shock, or fire. A high surge current from lightning or other sources may cause damage to the air conditioner.
Ľ	• Be sure to install an earth leakage breaker. Failure to install an earth leakage breaker may result in electric shocks, or fire.
	• Do not install the air conditioner in a place where there is danger of exposure to inflammable gas leakage. If the gas leaks and builds up around the unit, it may catch fire.
	Establish drain piping according to the instructions of this manual. Inadequate piping may cause flooding.
	 Tighten the flare nut according to the specified method such as with a torque wrench. If the flare nut is tightened too hard, the flare nut may crack after a long time and cause refrigerant leakage.
	 Make sure to provide for adequate measures in order to prevent that the outdoor unit be used as a shelter by small animals.
	Small animals making contact with electrical parts can cause malfunctions, smoke or fire. Please instruct the customer to keep the area around the unit clean.

Accessories

Accessories supplied with the outdoor unit:

(A) Installation Manual	1		
(C) Refrigerant charge label	1	(B) Drain plug (Heat pump-Models)	1
(D) Multilingual fluorinated greenhouse gases label	1		

Precautions for Selecting the Location

- 1) Choose a place solid enough to bear the weight and vibration of the unit, where the operation noise will not be amplified.
- Choose a location where the hot air discharged from the unit or the operation noise will not cause a nuisance to the neighbors of the user.
- 3) Avoid places near a bedroom and the like, so that the operation noise will cause no trouble.
- 4) There must be sufficient spaces for carrying the unit into and out of the site.
- 5) There must be sufficient space for air passage and no obstructions around the air inlet and the air outlet.
- 6) The site must be free from the possibility of flammable gas leakage in a nearby place.
- 7) Install units, power cords and inter-unit cables at least 3 meter away from television and radio sets. This is to prevent interference to images and sounds. (Noises may be heard even if they are more than 3 meter away depending on radio wave conditions.)
- 8) In coastal areas or other places with salty atmosphere of sulfate gas, corrosion may shorten the life of the air conditioner.
- 9) Since drain flows out of the outdoor unit, do not place under the unit anything which must be kept away from moisture.

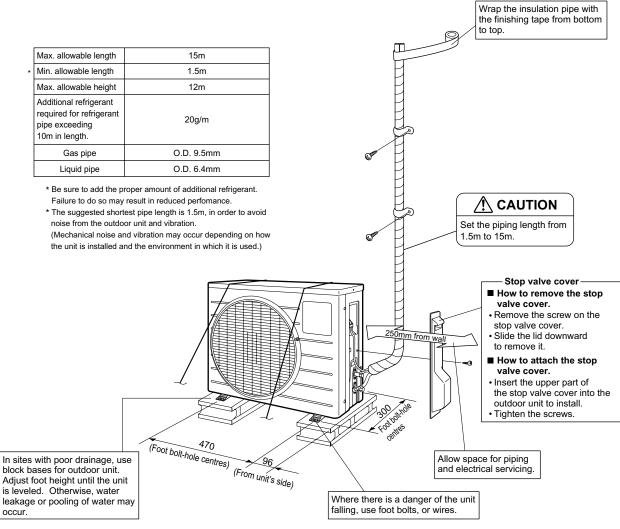
NOTE

Cannot be installed hanging from ceiling or stacked.

When operating the air conditioner in a low outdoor ambient temperature, be sure to follow the instructions described below.

- To prevent exposure to wind, install the outdoor unit with its suction side facing the wall.
- Never install the outdoor unit at a site where the suction side may be exposed directly to wind.
- Construct a large canopy.
 Construct a pedestal.
 Install the unit high enough off the ground to prevent burying in snow.
- 3) To prevent exposure to wind, it is recommended to install a baffle plate on the air discharge side of the outdoor unit.
- 4) In heavy snowfall areas, select an installation site where the snow will not affect the unit.

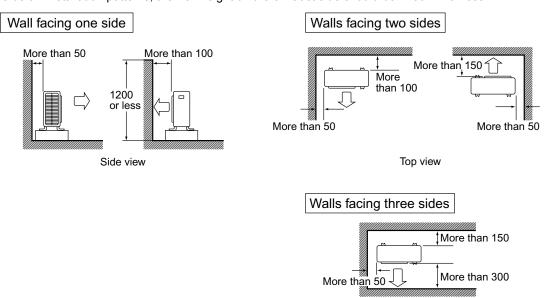
Outdoor Unit Installation Drawings



unit: mm

Installation Guidelines

Where a wall or other obstacle is in the path of outdoor unit's intake or exhaust airflow, follow the installation guidelines below.
For any of the below installation patterns, the wall height on the exhaust side should be 1200mm or less.

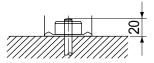


Top view

Unit: mm

Precautions on Installation

- Check the strength and level of the installation ground so that the unit will not cause any operating vibration or noise after installed.
 In accordance with the foundation drawing, fix the unit securely by means of the foundation bolts. (Prepare four sets of M8 or M10
- foundation bolts, nuts and washers each which are available on the market.)
- It is best to screw in the foundation bolts until their length are 20mm from the foundation surface.



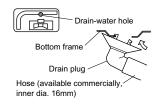
Outdoor Unit Installation

1. Installing outdoor unit.

- 1) When installing the outdoor unit, refer to "Precautions for Selecting the Location" and the "Outdoor Unit Installation Drawings."
- 2) If drain work is necessary, follow the procedures below.

2. Drain work. (Heat pump-models.)

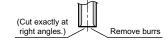
- 1) Use drain plug for drainage.
- 2) If the drain port is covered by a mounting base or floor surface, place additional foot bases of at least 30mm in height under the outdoor unit's feet.
- In cold areas, do not use a drain hose with the outdoor unit. (Otherwise, drain water may freeze, impairing heating performance.)



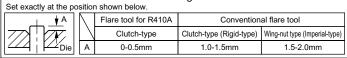
Outdoor Unit Installation

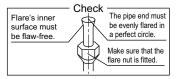
3. Flaring the pipe end.

- 1) Cut the pipe end with a pipe cutter.
- 2) Remove burrs with the cut surface facing downward so that the chips do not enter the pipe.
- 3) Put the flare nut on the pipe.
- 4) Flare the pipe.
- 5) Check that the flaring is properly made.



Flaring





🕂 WARNING -

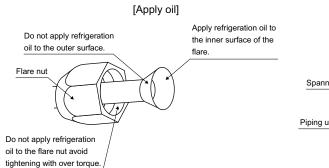
- 1) Do not use mineral oil on flared part.
- 2) Prevent mineral oil from getting into the system as this would reduce the lifetime of the units.
- 3) Never use piping which has been used for previous installations. Only use parts which are delivered with the unit.
- 4) Do never install a drier to this R410A unit in order to guarantee its lifetime.
- 5) The drying material may dissolve and damage the system.
- 6) Incomplete flaring may cause refrigerant gas leakage.

4. Refrigerant piping.

A CAUTION -

- 1) Use the flare nut fixed to the main unit. (To prevent cracking of the flare nut by aged deterioration.)
- 2) To prevent gas leakage, apply refrigeration oil only to the inner surface of the flare. (Use refrigeration oil for R410A.)
- 3) Use torque wrenches when tightening the flare nuts to prevent damage to the flare nuts and gas leakage.

Align the centres of both flares and tighten the flare nuts 3 or 4 turns by hand. Then tighten them fully with the torque wrenches.



	Torque wrench
Spanner Piping union	Flare nut
	Thate flut

[Tighten]

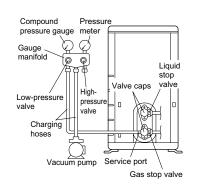
Flare nut tightening torque			
Gas side Liquid side			
3/8 inch	1/4 inch		
32.7-39.9N • m (333-407kgf • cm)	14.2-17.2N • m (144-175kgf • cm)		

	Valve cap tightening torque		
	Gas side	Liquid side	
1	3/8 inch	1/4 inch	
21.6-27.4N • m		21.6-27.4N • m	
	(220-280kgf • cm)	(220-280kgf • cm)	
	Service port cap	10.8~14.7N • m	
	tightening torque	(110~150kgf • cm)	

5. Purging air and checking gas leakage.

• When piping work is completed, it is necessary to purge the air and check for gas leakage.

- 1) Do not mix any substance other than the specified refrigerant (R410A) into the refrigeration cycle.
- 2) When refrigerant gas leaks occur, ventilate the room as soon and as much as possible.
- 3) R410A, as well as other refrigerants, should always be recovered and never be released directly into the environment.
- Use a vacuum pump for R410A exclusively. Using the same vacuum pump for different refrigerants may damage the vacuum pump or the unit.
- If using additional refrigerant, perform air purging from the refrigerant pipes and indoor unit using a vacuum pump, then charge additional refrigerant.
- · Use a hexagonal wrench (4mm) to operate the stop valve rod.
- All refrigerant pipe joints should be tightened with a torque wrench at the specified tightening torque.



1) Connect projection side of charging hose (which comes from gauge manifold) to gas stop valve's service port.

- Fully open gauge manifold's low-pressure valve (Lo) and completely close its high-pressure valve (Hi). (High-pressure valve subsequently requires no operation.)
- 3) Do vacuum pumping and make sure that the compound pressure gauge reads -0.1MPa (-76cmHg)*1.

 Close gauge manifold's low-pressure valve (Lo) and stop vacuum pump. (Keep this state for a few minutes to make sure that the compound pressure gauge pointer does not swing back.)*2.

5) Remove caps from liquid stop valve and gas stop valve.

6) Turn the liquid stop valve's rod 90 degrees counterclockwise with a hexagonal wrench to open valve. Close it after 5 seconds, and check for gas leakage. Using soapy water, check for gas leakage from indoor unit's flare and outdoor unit's flare and valve rods. After the check is complete, wipe all soapy water off.

 Disconnect charging hose from gas stop valve's service port, then fully open liquid and gas stop valves. (Do not attempt to turn valve rod beyond its stop.)

8) Tighten valve caps and service port caps for the liquid and gas stop valves with a torque wrench at the specified torques.

*1. Pipe length vs. vacuum pump run time.

Pipe length	Up to 15 metres
Run time	Not less than 10 min.

*2. If the compound pressure gauge pointer swings back, refrigerant may have water content or a loose pipe joint may exists. Check all pipe joints and retighten nuts as needed, then repeat steps 2) through 4).

Outdoor Unit Installation

6. Refilling the refrigerant.

Check the type of refrigerant to be used on the machine nameplate.

Precautions when adding R410A

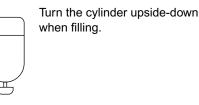
Fill from the liquid pipe in liquid form.

- It is a mixed refrigerant, so adding it in gas form may cause the refrigerant composition to change, preventing normal operation.
- 1) Before filling, check whether the cylinder has a siphon attached or not. (It should have something like "liquid filling siphon attached" displayed on it.)

Filling a cylinder with an attached siphon



Stand the cylinder upright when filling. There is a siphon pipe inside, so the cylinder need not be upside-down to Filling other cylinders



• Be sure to use the R410A tools to ensure pressure and to prevent foreign objects entering.

Important information regarding the refrigerant used

This product contains fluorinated greenhouse gases covered by the Kyoto Protocol. Do not vent gases into the atmosphere.

fill with liquid.

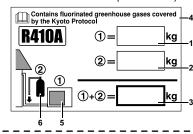
Refrigerant type: R410A

GWP⁽¹⁾ value: **1975** ⁽¹⁾ GWP = global warming potential

Please fill in with indelible ink,

- i ① the factory refrigerant charge of the product,
- \blacksquare ② the additional refrigerant amount charged in the field and \blacksquare ③ \square ④ the total refrigerant charge
- ■①+② the total refrigerant charge
- on the refrigerant charge label supplied with the product.

The filled out label must be adhered in the proximity of the product charging port (e.g. onto the inside of the stop valve cover).



- 1 factory refrigerant charge of the product: see unit name plate
- 2 additional refrigerant amount charged in the field
- 3 total refrigerant charge
- 4 Contains fluorinated greenhouse gases covered by the Kyoto Protocol
- 5 outdoor unit
- 6 refrigerant cylinder and manifold for charging

NOTE

National implementation of EU regulation on certain fluorinated greenhouse gases may require to provide the appropriate official national language on the unit. Therefor an additional multilingual fluorinated greenhouse gases label is supplied with the unit. Sticking instructions are illustrated on the backside of that label.

7. Refrigerant piping work.

7-1 Cautions on pipe handling.

- 1) Protect the open end of the pipe against dust and moisture.
- 2) All pipe bends should be as gentle as possible. Use a pipe bender for bending.

7-2 Selection of copper and heat insulation materials.

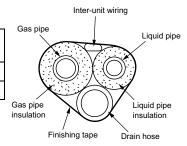
When using commercial copper pipes and fittings, observe the following:

- 1) Insulation material: Polyethylene foam
 - Heat transfer rate: 0.041 to 0.052W/mK (0.035 to 0.045kcal/(mh •°C)) Refrigerant gas pipe's surface temperature reaches 110°C max. Choose heat insulation materials that will withstand this temperature.
- Be sure to insulate both the gas and liquid piping and to provide insulation dimensions as below.

Gas side	Liquid side	Gas pipe thermal insulation	Liquid pipe thermal insulation
O.D. 9.5mm	O.D. 6.4mm	I.D. 12-15mm	I.D. 8-10mm
Minimum bend radius		Thickness 10mm Min.	
30mm or more			
Thickness 0.8m	nm (C1220T-O)		

3) Use separate thermal insulation pipes for gas and liquid refrigerant pipes.





Pump Down Operation

In order to protect the environment, be sure to pump down when relocating or disposing of the unit.

- 1) Remove the valve cap from liquid stop valve and gas stop valve.
- 2) Carry out forced cooling operation.
- 3) After five to ten minutes, close the liquid stop valve with a hexagonal wrench.
- 4) After two to three minutes, close the gas stop valve and stop forced cooling operation.

How to force cooling operation mode

■ Using the indoor unit operation/stop button

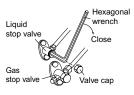
- Press the indoor unit operation/stop button for at least five seconds. (Operation will start.)
- Forced cooling operation will stop automatically after around 15 minutes.
- To force a test run to stop, press the indoor unit operation/stop button.

Using the main unit's remote controller

- 1) Press the "operation/stop" button. (Operation will start.)
- 2) Press the temperature **A v** button and the "operation select" button at the same time.
- 3) Press the "operation select" button twice.
 - (7 will be displayed and the unit will enter test run mode.)
- 4) Press the "operation select" button to return the operation mode to cooling.
- Test run mode will stop automatically after around 30 minutes. To force a test run to stop, press the operation/stop button.

1) When pressing the switch, do not touch the terminal block. It has a high voltage, so doing so may cause electric shock.

2) After closing the liquid stop valve, close the gas stop valve within three minutes, then stop the forced operation.

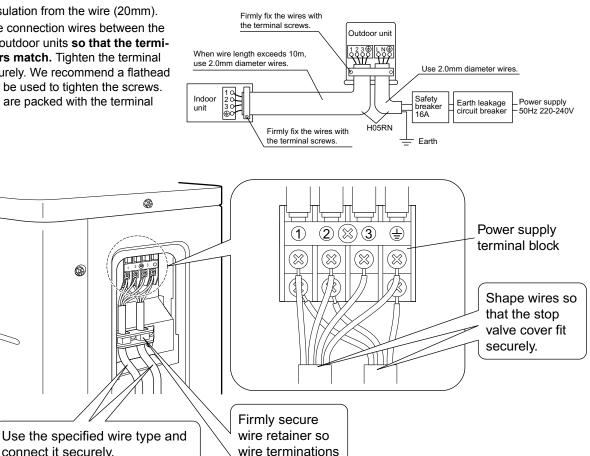


Wiring

- 1) Do not use tapped wires, stranded wires, extension cords, or starburst connections, as they may cause overheating, electrical shock, or fire.
- 2) Do not use locally purchased electrical parts inside the product. (Do not branch the power for the drain pump, etc., from the terminal block.) Doing so may cause electric shock or fire.
- 3) Be sure to install an earth leakage breaker. (One that can handle higher harmonics.) (This unit uses an inverter, which means that it must be used an earth leakage breaker capable handling harmonics in order to prevent malfunctioning of the earth leakage breaker itself.)
- 4) Use an all-pole disconnection type breaker with at least 3mm between the contact point gaps.
- 5) Do not connect the power wire to the indoor unit. Doing so may cause electric shock or fire.

Do not turn ON the safety breaker until all work is completed. ٠

- 1) Strip the insulation from the wire (20mm).
- 2) Connect the connection wires between the indoor and outdoor units so that the terminal numbers match. Tighten the terminal screws securely. We recommend a flathead screwdriver be used to tighten the screws. The screws are packed with the terminal board.



will not receive external stress.

Observe the notes mentioned below when wiring to the power supply terminal board.

a

Precautions to be taken for power supply wiring.

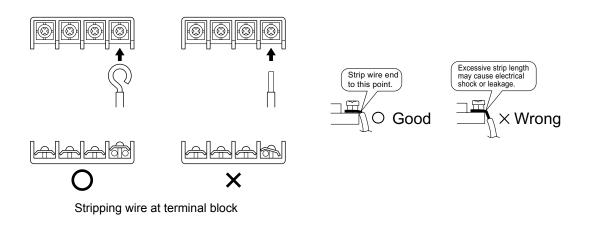
connect it securely.

Use a round crimp-style terminal for connection to the power supply terminal board. In case it cannot be used due to unavoidable reasons, be sure to observe the following instruction.

Place the round crimp-style terminals on the wires up to the covered part and secure in place.



When connecting the connection wires to the terminal board using a single core wire, be sure to perform curling. Problems with the work may cause heat and fires.



3) Pull the wire and make sure that it does not disconnect. Then fix the wire in place with a wire stop.

Test Run and Final Check

1. Trial operation and testing.

- 1-1 Measure the supply voltage and make sure that it falls in the specified range.
- 1-2 Trial operation should be carried out in either cooling or heating mode.
- For heat pump
- In cooling mode, select the lowest programmable temperature; in heating mode, select the highest programmable temperature.
 - 1) Trial operation may be disabled in either mode depending on the room temperature.
 - 2) After trial operation is complete, set the temperature to a normal level (26°C to 28°C in cooling mode, 20°C to 24°C in heating mode).
 - 3) For protection, the system disables restart operation for 3 minutes after it is turned off.
- For cooling only
- Select the lowest programmable temperature.
 - 1) Trial operation in cooling mode may be disabled depending on the room temperature.
 - 2) After trial operation is complete, set the temperature to a normal level (26°C to 28°C).
 - 3) For protection, the unit disables restart operation for 3 minutes after it is turned off.
- 1-3 Carry out the test operation in accordance with the operation manual to ensure that all functions and parts, such as louver movement, are working properly.
 - The air conditioner requires a small amount of power in its standby mode. If the system is not to be used for some time after installation, shut off the circuit breaker to eliminate unnecessary power consumption.
 - If the circuit breaker trips to shut off the power to the air conditioner, the system will restore the original operation mode when the circuit breaker is opened again.

2. Test items.

Test items	Symptom (diagnostic display on RC)	Check
Indoor and outdoor units are installed properly on solid bases.	Fall, vibration, noise	
No refrigerant gas leaks.	Incomplete cooling/heating function	
Refrigerant gas and liquid pipes and indoor drain hose extension are thermally insulated.	Water leakage	
Draining line is properly installed.	Water leakage	
System is properly earthed.	Electrical leakage	
The specified wires are used for interconnecting wire connections.	Inoperative or burn damage	
Indoor or outdoor unit's air intake or exhaust has clear path of air. Stop valves are opened.	Incomplete cooling/heating function	
Indoor unit properly receives remote controller commands.	Inoperative	

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